ports to take OC-48 output from the line card and split it into constituent tributaries, such as OC-12, OC-3 or DS-3 tributaries.

IN THE CLAIMS:

Please cancel claim 4 without prejudice or disclaimer.

Please amend claims 1, 5-8, 11, 12, and 14 as follows:

1. (Amended) A device for directing data toward destinations, comprising:

an input interface configured to:

receive a data stream from a single port,

identify Asynchronous Transfer Mode (ATM) cells and Internet Protocol (IP) packets within the data stream, and

forward the ATM cells and IP packets;

an IP packet forwarding facility configured to:

receive IP packets from the input interface, and

forward the IP packets toward their destinations; and

an ATM cell switching facility configured to:

receive ATM cells from the input interface, and

switch the ATM cells toward their destinations.

(Amended) The device of claim 1 wherein the data stream includes synchronous optical network (SONET) frames and wherein the device further comprises a SONET deframer for deframing the SONET frames in the data stream.

6. (Amended) The device of claim 1 wherein the device includes output ports for outputting data and wherein the ATM cell switching facility further comprises an ATM cell lookup for identifying to which of the output ports to direct the ATM cells based on address information contained in the ATM cells.

7. (Amended) The device of claim 1 wherein the device includes output ports for outputting data and wherein the IP packet forwarding facility further comprises an IP packet lookup for identifying to which of the output ports to direct the IP packets based on address information contained in the IP packets.

8. (Amended) An apparatus for directing input toward destinations, comprising:

input ports for receiving data streams;

output ports for outputting data units; and

a director coupled to a selected one of the input ports and configured to:

identify layer 2 data units and layer 3 data units in a data stream received at the selected input port,

direct layer 2 data units encapsulated by an OSI layer 2 protocol to the output ports based on address information in the layer 2 data units, and

direct layer 3 data units encapsulated by an OSI layer 3 protocol to the output ports based on address information in the layer 3 data units.

11. (Amended) In a device for directing input data traffic received on input ports to output ports, a method comprising:

receiving a data stream at one of the input ports;

identifying Internet Protocol (IP) packets and Asynchronous Transfer Mode (ATM) cells in the received data stream;

directing an identified IP packet that is received on the one input port to at least one of the output ports based on an IP lookup operation; and

directing an identified ATM cell that is received on the one input port to at least one of the output ports based on an ATM lookup operation.

12. (Amended) The method of claim 11 wherein the device includes a Synchronous Optical Network (SONET) deframer and wherein the SONET deframer is used to deframe any SONET frames in the data stream received at the one input port.

14. (Amended) A device for directing both Internet Protocol (IP) packets containing address information identifying destinations and Asynchronous Transfer Mode (ATM) cells containing address information identifying destination toward their destinations, comprising:

input ports for receiving streams of input data;

output ports for outputting streams of data;

line cards for directing input data received at the input ports to the output ports, each said line card including: